

Atty. Dkt. No. 2149.731

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Anticipated Classification of  
this application:

Class \_\_\_\_\_, Subclass \_\_\_\_\_

Prior Application:

Examiner J. Keenan

Art Unit 3652

Box Patent Application  
Honorable Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Sir:

This is a request for filing a ☒ continuation ☐  
divisional application under 35 U.S.C. 120 and/or 37 C.F.R.

1.60, of pending prior application serial no(s). 08/880,864

filed June 23, 1997; which is a CIP of 08/795,409 filed 2/5/97

(now U.S. Pat. No. 5,876,173)

~~xxxxxx~~ \_\_\_\_\_, of

Charles L. English, Jr., Douglas R. Stahl, ~~xxx~~ and William Hees for

LIFT DOLLY FOR USE IN CONJUNCTION WITH STAND-MOUNTED POWER TOOLS AND

THE LIKE, the disclosures of which are all hereby incorporated herein  
by reference.

1. ☒ Enclosed is a copy of the prior application(s),  
including the oath or declaration as originally  
filed and an affidavit or declaration verifying  
it as a true copy.
2. ☐ Enclosed is a Request for Extension of Time for  
(1/2/3/4) month(s).
3. The filing fee is calculated below:

CLAIMS AS FILED IN THE PRIOR APPLICATION,  
LESS ANY CLAIMS CANCELLED BY AMENDMENT BELOW

	(Col. 1)	(Col. 2)	Small Entity		Other Than A Small Entity	
FOR:	No. Filed	No. Extra	Rate	Fee	Rate	Fee
Basic				\$380		\$760
Total Claims	-20= 1	* 0	x \$9	\$	x \$18	\$ 0
Indep. Claims	-3= 1	* 0	x \$39	\$	x \$78	\$ 0
Mult. Dep. Claim Present			+ \$130		+ \$260	
			Total	\$	Total	\$ 760.00

\* If the difference in col. 1 is less than zero, enter "0" in col. 2

4. ☒ The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Account No. 50-0548. A duplicate copy of this sheet is enclosed.
5. ☒ A check in the amount of \$ 760.00 is enclosed.
6. ☒ Cancel in this application original claims 1-20 of the prior application before calculating the filing fee.
7. ☒ Please amend the specification by inserting before the first line the sentence: --This is a ☒ continuation, ☐ division of application serial no(s). 08/880,864, filed 6/23/97; which is a CIP of 08/795,409, filed 2/5/97 (now U.S. Pat. No. 5,876,173) the disclosures of which are all hereby incorporated herein by reference.--
8. ☐ Transfer the drawings from the prior application to this application and abandon said prior application as of the filing date accorded this application. A duplicate copy of this sheet is enclosed for filing in the prior application file.

8a. [ x ] Informal ~~formal~~ drawings are enclosed.

8b. [ ] Priority of application serial no(s).  
\_\_\_\_\_, filed on  
\_\_\_\_\_, in  
\_\_\_\_\_ is claimed under 35 U.S.C. 119.

[ ] The certified copy has been filed in prior application serial no(s).  
\_\_\_\_\_, filed  
\_\_\_\_\_.

9. [ x ] The prior application(s) is(are) assigned of record to

\_\_\_\_\_  
Herculift Technologies, Inc.

10. [ x ] The power of attorney in the prior application(s) is/are to:

\_\_\_\_\_  
Myers, Liniak & Berenato

a. [ x ] The power appears in the original papers in the prior application(s).

b. [ ] Since the power does not appear in the original papers, a copy of the power in the prior application is enclosed.

c. [ x ] Address all future communications to:

Joseph A. Rhoa, Esquire  
Liniak, Berenato, Longacre & White  
6550 Rock Spring Drive, Ste. 240  
Bethesda, Maryland 20817  
(301) 896-0600


11. [ x ] A preliminary amendment is enclosed. Claims added by this amendment have been properly numbered consecutively beginning with the number next following the highest numbered original claim in the prior application.

12. [ X] I hereby verify that the attached papers are a true copy of prior application serial no(s).  
08/880,864 filed 6/23/97; which is a CIP of 08/795,409  
as originally filed on  
2/5/97 (now U.S. Pat. No. 5,876,173) the disclosures of.which  
are all hereby incorporated herein by reference.

The undersigned declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated:

7/27/99



Joseph A. Rhoa, Esquire  
Reg. No. 37,515  
Attorney for Applicant(s)

- [ ] inventor(s)  
[ ] Assignee of complete  
interest  
[ X ] Attorney or agent of  
record  
[ ] Filed under Rule 34(a)

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PATENT  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :  
: CHARLES LAMAR ENGLISH, JR., : Group Art Unit: 3652  
et. al. :  
: Serial No.: To Be Assigned : Examiner: J. Keenan  
: Filed: Concurrently : Atty. Dkt. No.: 2149.731  
: For: LIFT DOLLY FOR USE IN :  
CONJUNCTION WITH STAND- :  
MOUNTED POWER TOOLS AND :  
THE LIKE :

Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

IN THE CLAIMS:

Please cancel claims 1-20.

Please add the following new claim:

1 --21. A lift dolly adapted to lift and enable transport of  
2 an object, the lift dolly comprising:

3 a first platform adapted to be affixed to a first  
4 portion of the object;

5 a second platform adapted to be affixed to a second  
6 portion of the object;

7           said first platform selectively coupleable to said  
8 second platform;

9           said first and second platforms operatively associated  
10 with one another so as to enable the object to be lifted to a  
11 raised position by applying pressure to said first platform;

12           said first and second platforms operatively associated  
13 with one another so as to enable lowering of the object from the  
14 raised position by applying pressure to said first platform; and

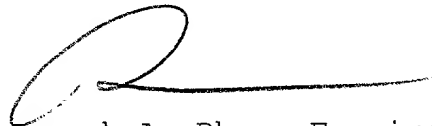
15           wherein support portions of said first platform are at  
16 least partially located directly above first and second wheels  
17 connected to said first platform, respectively.--

REMARKS

It is respectfully requested that the instant Preliminary Amendment be entered prior to initial examination of this application.

A check in the amount of \$760.00 is attached hereto. It is believed that no other fee is due with this submission. Should that determination be incorrect, then please debit Deposit Account No. 50-0548 and notify the undersigned.

Respectfully submitted,



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Attorney for Applicant

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Atty. Dkt. No. 2149.737

LIFT DOLLY FOR USE IN CONJUNCTION WITH  
STAND-MOUNTED POWER TOOLS AND THE LIKE

Inventors: Charles L. English, Jr.  
Douglas R. Stahl  
William Hees

00364130-022739



This application is a Continuation-in-Part (CIP) of 08/795,409, filed on February 5, 1997, the disclosure of which is hereby incorporated herein by reference.

5                    LIFT DOLLY FOR USE IN CONJUNCTION WITH  
                    STAND-MOUNTED POWER TOOLS AND THE LIKE

                    This invention relates to a lift dolly which is adapted to lift and transport stand-mounted power tools, and the like. More particularly, this invention relates to such a lift dolly which permits the operator to lift  
10                   the tool to be transported by simply stepping onto a foot-receiving surface thereby forcing the dolly's wheel system downward relative to the tool and into a position for supporting and transporting the stand-mounted tool.

BACKGROUND OF THE INVENTION

15                   Lift dollies are old and well-known in the art. Dollies have been provided which function to lift and move bulky machinery, plate glass, and the like. In such dollies, a hand actuated hydraulic jack typically raises and lowers forks for lifting the machinery after which  
20                   the dolly and machinery may together be rolled along the

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floor/ground by way of a pair of wheels mounted on the  
dolly.

Unfortunately, such dollies, while useful in  
transporting crates, plate glass, etc., are not adapted  
5 to lift and/or transport items such as stand-mounted  
power tools and the like due to the shape defined by legs  
of such stands.

In view of the above, it is apparent that there  
exists a need in the art for a lift dolly capable of  
10 lifting and transporting, with little effort, stand-  
mounted objects, such as power tools. Preferably, such a  
dolly should be simplistic, easy to use, and cost-  
effective to manufacture.

It is a purpose of this invention to fulfill the  
15 above-described needs in the art.

#### SUMMARY OF THE INVENTION

Generally speaking, this invention fulfills the  
above-described needs in the art by providing a lift  
dolly for lifting and transporting stand-mounted power  
20 tools and the like. In certain embodiments, the dolly  
includes a pair of rigid platforms and a wheel system

having at least three, and preferably four, castors  
extending downwardly therefrom. The dolly is designed  
such that one step onto a foot receiving surface or  
member by the operator causes the wheel system to be  
5 forced downward relative to the tool and its stand, and  
locked in a tool-supporting position so as to slightly  
lift the power tool and stand off of the ground and  
enable transport of same. Another step by the operator  
on the foot-receiving surface disengages (i.e.  
10 unlocks/unlatches) the wheel system and permits gravity  
to return the stand and tool to the ground for use.

This invention further fulfills the above-described  
needs in the art by providing:

a dolly for selectively lifting and transporting a  
15 power tool mounted on a stand, the dolly comprising:

a first platform including a wheel system (e.g.  
castors) extending downwardly therefrom, and an actuation  
surface or member for receiving downwardly applied  
pressure by an operator in order to lift the stand and  
20 tool off of the ground;

a second platform including a wheel system extending  
downwardly therefrom;

connection means for rigidly affixing the first platform to one portion of the stand, and means for rigidly affixing the second platform to another portion of the stand;

5        the actuation surface or member of the first platform being located above at least a portion of the second platform; and

lift means for lifting the stand and power tool off of the ground and enabling transport of same via the  
10        wheels, the lift means including a selectively actuated coupling means (e.g. latch) for selectively coupling the first and second platforms, and being actuated in response to pressure applied downwardly onto the actuation surface or member that forces the wheels  
15        downward so that the wheels, as opposed to the stand, support the power tool on the ground.

#### IN THE DRAWINGS

Figure 1 is a perspective view of the lift dolly according to an embodiment of this invention, in its  
20        locked/lifting position.

Figure 2 is a perspective view of the Figure 1 dolly in its unlocked/lowering position.

Figure 3 is a right side elevational view of the dolly of Figures 1-2 mounted to a stand which supports a table saw, the dolly being illustrated in the unlocked position where the stand solely supports the saw.

Figure 4 is a fragmentary right side elevational view of the dolly of Figures 1-3 mounted to the table saw stand of Figure 3, the dolly illustrated in the locked position where the table saw and stand are supported on the ground by the wheels so as to enable transport.

Figure 5 is a front elevational view of the Figure 1-4 dolly mounted to the stand, illustrating the dolly in its unlocked position where the stand contacts the ground.

Figure 6 is a fragmentary front elevational view of the Figure 1-5 dolly mounted to the stand, illustrating the dolly in its locked and lifting position where the stand is lifted from the ground and the stand and saw are supported on the ground primarily by the wheels.

Figure 7 is a perspective view of the latching/locking system used to connect the first and second dolly platforms of Figures 1-6.

Figure 8 is a perspective view of a dolly according to another embodiment of this invention.

Figure 9 is a rear elevational view of part of the Figure 7 latching mechanism, illustrating the attachment of the biasing spring to the male latch member.

DETAILED DESCRIPTION OF  
CERTAIN EMBODIMENTS OF THIS INVENTION

Referring now more particularly to the accompanying drawings in which like reference numerals indicate like parts throughout the several views.

Referring to Figures 1-7, it is seen that the lift dolly of the present invention, generally denoted by reference numeral 10, includes first rigid platform 12 having proximal end 14 and distal end 16 and second rigid platform 18 having proximal end 20 and distal end 22. First platform 12 includes generally flat, triangular, and trapezoidal frame portion 24, including rigid elongated members 3-5, that may be open (as illustrated) or closed (e.g. a solid or quasi-solid metal

sheet or the like). The wheel system of first platform 12 may include, for example, a first pair of castor stems 28, each having a castor 30 thereon, which extend downwardly from frame 24 proximate distal end 16 of platform 12. Alternatively, other types of known wheels may be used in place of castors 30 to support lift dolly 10.

For example, the wheel system of each platform may simply include a single elongated rotating cylinder [instead of the illustrated castors], so that only two wheels are provided on the entire device. It should be noted, however, that according to this cylinder-inclusive embodiment, the dolly would only be mobile in one direction as opposed to all directions [this is, of course, acceptable in certain embodiments of this invention].

Referring to Figures 1, 2, 7, and 9, platform 12 further includes, as part of the latching mechanism, foot receiving surface or pedal 25 mounted on top of respective ends of members 3 and 4, downwardly extending male portion 48 of the latching mechanism that is pivotally mounted below surface 25, mounting member 47

affixed to one of members 3 or 4 (or to plate 25), and pivot axis 49 about which male portion 48 pivots relative to mounting member 47.

Second platform 18 is smaller in size than platform 12, and includes generally flat, triangular, and trapezoidal frame portion 32, that includes rigid elongated members 6-9. Frame 32 may be open (as illustrated) or closed. A second pair of castor stems 34, each having a castor 30 thereon, extend downwardly from frame 32 proximate distal end 22 and crossbar 9 thereof.

Platform 18 further includes, as part of the latch/lock assembly, rigid U-shaped member 50 that projects from the inner vertical surface of crossbar 9, vertically extending projection or cam surface 51 that extends from the upper horizontal surface of crossbar 9, latching aperture or void 52 (see Figure 7) defined in the bottom surface of U-shaped member 50, and locking crossbar 59 which locks the latching mechanism by fitting into cutout or notch 58 of male member 48. Although the cam surface is defined by projection 51 in the illustrated embodiments, this surface may be defined by



other portions of platform 18 or the female portion of the latching mechanism.

With regard to platforms 12, 18, and frames 24, 32 thereof, the platforms illustrated in Figures 1-8 are open (i.e. they are made up of the frame, which includes a plurality of rigid members connected to one another at corners of the frame). However, it will be appreciated by those of skill in the art that platforms 12 and 18 (as well as frames 24 and 32) may be of any of a number of different shapes or designs, provided that the essential function of the dolly is not compromised. For example, each platform may be made up of a planar or arced sheet of rigid material (e.g. sheet metal) that is void of any elongated frame members. Furthermore, it will be appreciated that the illustrated and discussed latching mechanism is exemplary and the invention is not limited thereto. Other known latching mechanisms which permit selective attachment of the platforms may instead be used.

Mounting members (or anchor plates) 38 are attached to the four corners of dolly 10 for the purpose of affixing the dolly to the four legs of the stand 55 which

supports an item such as power tool 57 (e.g. table saw).

Other power tools such as drills, lathes, etc. may also be mounted on stand 55, as may objects other than power tools. For example, it has further been found that the

5 dolly 10 can be advantageously used in connection with or built into a wide variety of other devices such as tables, workbenches, medical equipment, chairs, engine lifts, filing cabinets, copiers and other office equipment to facilitate lifting and/or transport thereof.

10 Each mounting member 38 is pivotally attached to the corresponding platform and/or frame and is rotatable about a vertical axis so that the platforms may be mounted to different sides of legs of different sized stands 55.

15 In order to utilize lift dolly 10 to perform its intended function, first platform 12 is positioned proximate an object 55, 57 (e.g. stand-mounted power tool) to be lifted. Each mounting member or anchor plate 38 is secured to a different leg of object 55, 57. This  
20 securement can be accomplished in any appropriate fashion, including insertion of bolts attached to plates

38 through corresponding apertures defined in the legs of stand 55.

Once anchor plates 38 of platform 12 are secured to object 55, 57, the weight of the object causes first platform 12 to be oriented so that castors 30 merely rest on the ground without supporting the object (i.e. while the wheels 30 may touch the ground or be slightly raised therefrom, the stand may not be moved as the legs are the primary tool support, and use of the tool is unaffected). See Figure 3.

Second platform 18 is secured to the other end of object 55, 57 to be lifted in a similar fashion to the securement of first platform 12 to object 55, 57 (i.e. platform 12 is attached to first and second legs of stand 55, while platform 18 is attached to third and fourth legs of the stand). When second platform 18 is secured, it is oriented with its proximal end 20 terminating beneath first platform 12. See Figure 3.

In order to lift object 55, 57 off of the ground in order to move it via the dolly, downward pressure is exerted by an operator or user (preferably by the foot of the operator) on foot-receiving surface or platform 25

proximate end 14 of frame 24. When end 14 of platform 12 is pressed downward, spring-biased male portion 48 is inserted through aperture 52 (see Figure 7) of the latch's female portion, with the spring-bias then causing the latching mechanism to lock the two platforms 12 and 18 together as cutout or notch 58 in male 48 receives locking member or crossbar 59 due to the biasing of male 48 toward locking member 59 by spring 71 (see Figure 9).

When crossbar 59 is locked in notch 58, castors 30 of both platforms have been forced downward and are held there contacting the ground in a supporting manner as shown in Figures 4 and 6, thereby lifting stand 55 and tool 57 off of the ground so that they can be wheeled across the ground and transported. As discussed, when rigid platform 12 is forced downward by the operator, elongated members 3 and 4 engage end 20 and crossbar 8 of second platform 18 thereby causing downward movement of frame 32 relative to the stand, and thus castors 30 of platform 18 also become supportive of the stand and tool as shown in Figures 4 and 6. When the first and second platforms are generally horizontal (e.g. see Figures 4 and 6), the stand and tool are lifted off of the ground

by all four wheels or castors and are ready for lateral transport on the ground.

It is noted that the first pair of castor stems 28 may be longer than the second pair of castor stems 34 in order to assure level positioning of dolly 10, or alternatively one or both of frames 24 and 32 may be bent or curved to accomplish the same result.

In certain embodiments, platforms 12 and 18 are not secured to one another in any fashion, except via the legs of the stand, and by latch mechanism 47, 48, 49, 50, 51, 52, and 59 when it is locked. Thus, when dolly 10 is in its passive or non-lifting position (see Figures 2, 3, and 5), the two platforms are not directly connected together in certain embodiments, although the bottom surfaces of members 3 and 4 rest upon the top of crossbar 8 of platform 18, and the legs of stand 55 indirectly couple the platforms.

When the operator presses down on surface 25, male 48 becomes locked within the female portion 50, 52, 59 of the latch mechanism thereby locking the wheels or castors in their supporting position and, at the same time, coupling the two platforms (see Figures 7 and 9 for a

detailed view of the latch mechanism). When the wheels are in a supportive position and the latch is locked thereby coupling the platforms together, stand 55 and tool 57 may be rolled along the ground and transported.

5           In certain alternative embodiments, platforms 12 and 18 may be attached to one another at a location in addition to the latching mechanism (e.g. at bar 8). However, regardless of whether the platforms are additionally attached, they are to be selectively coupled  
10 via the latching mechanism.

          Figure 9 illustrates the attachment of biasing spring 71 to mounting member 47 and male member 48 of the latching mechanism. Pins 72 are provided for attaching spring 71 to these members so that spring 71 biases  
15 member 48 toward crossbar 59 when the center of gravity of member 48 is on the crossbar 59 side of axis 63, and away from crossbar 59 when the center of gravity of the male member is on the other side of axis 63.

          Referring to Figure 7, when it is desired to lower  
20 the stand and tool from its lifted position, the operator simply steps on surface 25 in order to release the latch and allow gravity to lower the stand and tool to the

ground for use. When the operator steps on surface 25 when the latch is locked, male portion 48 is caused to move further downward through aperture 52 in a manner so that upwardly angled surface 61 of member 48 slides along the inner surface of crossbar 59. The sliding of angled surface 61 of member 48 along crossbar 59 causes male member 48 to pivot about axis 49 in a direction away from crossbar 59 and to the opposite side of axis 63 that extends through each of members 47 and 48 and axis 49.

When male member 48 reaches the other side of axis 63, the spring causes member 48 to be biased in the opposite pivotal direction (i.e. away from crossbar 59 as viewed in Figure 7) so that when the operator lifts his/her foot off of surface 25, stand 55 falls to the ground as male member 48 moves upwardly through aperture 52 and is biased away from crossbar 59. On its way upward away from aperture 52 and crossbar 59 during the release/unlocking process, the side of member 48 opposite cutout 58 contacts projection (or cam surface) 51 which causes member 48 to move back to the crossbar 59 side of axis 63 so that when male member 48 is again pressed downward through aperture 52, the spring will bias member

48 toward crossbar 59 which will come to rest within cutout 58 thereby locking together the platforms of the dolly with the stand and tool in the raised or lifted position.

5           Figure 8 illustrates dolly 10 according to another embodiment of this invention. This embodiment is different than the previously described embodiment(s) in that anchor plates 38 are replaced with crossbar members 81 and 82 which are part of frames 24 and 32,  
10           respectively. The two platforms are attached to the four legs of stand 55 by way of crossbars 81-82, and the mounting apertures 83 defined therein. Bolts are fed through apertures 83 and the stand legs in order to mount the dolly to the stand. Furthermore, all other elongated  
15           members (3, 4, 6, 7, and 8) of the frames or platforms are telescopic in this embodiment in order to allow the dolly to mount onto different sized stands 55 and tools 57. Thus, these telescopic elongated members each include an inner elongated member and an outer elongated  
20           member which are axially adjustable relative to one another in order to alter the lengths of members 3, 4, 6, 7, and 8.





I CLAIM:

1           1.    A dolly for selectively lifting and  
2    transporting a power tool mounted on a stand, the dolly  
3    comprising:

4                a first platform including a wheel system  
5    extending downwardly therefrom, said first platform  
6    further including an actuation surface or member for  
7    receiving downwardly applied pressure in order to lift  
8    the stand and tool off of the ground;

9                a second platform including a wheel system  
10   extending downwardly therefrom;

11               connection means for rigidly affixing said  
12   first platform to one portion of the stand, and for  
13   rigidly affixing said second platform to another portion  
14   of the stand;

15               said actuation surface or member of said first  
16   platform being located above at least a portion of said  
17   second platform; and

18               lift means for moving the dolly from a passive  
19   position to a lift position thereby lifting the stand and  
20   power tool off of the ground and enabling the power tool  
21   to be moved on the ground via said wheel systems, said

22 lift means including a selectively actuated coupling  
23 means for selectively coupling said first and second  
24 platforms, and being actuated in response to downwardly  
25 applied pressure being applied to said actuation surface  
26 or member that forces said wheels downward so that said  
27 wheel systems, as opposed to the stand, support the power  
28 tool on the ground.

1 2. The dolly of claim 1, wherein said connection  
2 means for affixing said first and second platforms to the  
3 stand includes means for affixing said platforms so that  
4 said platforms, when affixed to the stand, are disposed  
5 entirely within the outer periphery of the stand so that  
6 the footprint of the power tool and stand is not enlarged  
7 by the dolly during use of the tool.

1 3. The dolly of claim 1, further comprising latch  
2 means, operatively associated with said actuation surface  
3 or member, for joining a portion of said first platform  
4 to a portion of said second platform in order to force  
5 said wheel systems downward and lift the stand and tool  
6 off of the ground.

7           4.    The dolly of claim 3, wherein said latch means  
8 includes a male member affixed to one of said platforms  
9 and a corresponding female member affixed to the other of  
10 said platforms for receiving said male member.

1           5.    The dolly of claim 3, wherein said actuation  
2 surface or member includes a foot receiving surface so  
3 that the operator can lift the stand and tool off of the  
4 ground by stepping on said foot receiving surface so that  
5 said latch means joins said first and second platforms  
6 together and causes said wheel systems to be forced  
7 downward relative to the stand so that said wheels  
8 support the stand.

1           6.    The dolly of claim 3, wherein at least part of  
2 said latch means is located on an elongated member  
3 connecting opposite sides of said second platform.

1           7.    The dolly of claim 1, wherein each of said  
2 platforms includes a frame which is one of (i)  
3 triangular-shaped; (ii) rectangular-shaped; and (iii)  
4 trapezoidal-shaped.

5           8.    The dolly of claim 1, wherein said connection  
6   means for affixing said first platform to the stand  
7   includes first and second members pivotally attached to  
8   said first platform.

1           9.    The dolly of claim 8, wherein said first  
2   platform includes a frame having first and second  
3   elongated members, and said first pivotally attached  
4   member is connected to said first elongated member  
5   proximate an end thereof, and said second pivotally  
6   attached member is connected to said second elongated  
7   member proximate an end thereof.

1           10.   The dolly of claim 9, wherein the wheel system  
2   of said first platform includes a pair of wheels and said  
3   wheels of said first platform are attached to said first  
4   and second elongated members, respectively.

1           11.   The dolly of claim 1, wherein said first  
2   platform includes first and second rigid elongated  
3   members connected by a crossbar member, and said second  
4   platform also includes first and second rigid elongated

5 members connected by another crossbar member, and wherein  
6 said first and second rigid elongated members of said  
7 first platform contact the top of said another crossbar  
8 member of said second platform when the dolly is in its  
9 lifting position so as to lift the stand and tool.

1 12. The dolly of claim 1, wherein said first  
2 portion of the stand includes first and second legs of  
3 the stand, and said second portion of the stand includes  
4 third and fourth legs of the stand.

1 13. A method of lifting and transporting an object  
2 mounted on a stand having first, second, third, and  
3 fourth legs, the method comprising the steps of:

4 (a) providing a lift dolly including first and  
5 second rigid members selectively connectable to one  
6 another by way of a latching mechanism;

7 (b) affixing the first rigid member of the  
8 lift dolly to the first and second legs of the stand;

9 (c) affixing the second rigid member of the  
10 lift dolly to the third and fourth legs of the stand so  
11 that when the first and second rigid members of the dolly

12 are affixed to the stand but are not connected to one  
13 another via the latching mechanism, the stand is the  
14 primary ground support for the object to be lifted; and  
15 (d) forcing a part of the first rigid member  
16 downward relative to the stand, said forcing step causing  
17 the latching mechanism to be actuated and couple together  
18 the first and second rigid members and lift the stand and  
19 object from the ground so that a wheel system of the  
20 dolly, as opposed to the stand, is the primary ground  
21 support for the object when the latching mechanism is  
22 actuated and couples the first and second rigid members  
23 together, thereby enabling transport of the object.

1 14. The method of claim 13, wherein said forcing  
2 step includes the operator stepping on a foot-receiving  
3 surface or pedal in order to force downward the part of  
4 the first rigid member.

1 15. The method of claim 13, wherein the first and  
2 second rigid members each include a platform having a  
3 plurality of rigid elongated members, and the latching  
4 mechanism includes a male portion mounted to the first

5 rigid member and a female portion mounted to the second  
6 rigid member.

1           16. A power tool device which may be selectively  
2 transported from one location to another along the  
3 ground, the power tool device comprising:

4           a stand having first, second, third, and fourth  
5   elongated legs;

6 a power driven tool mounted on said stand;

7                   a lift dolly affixed to said stand, said lift  
8   dolly including a wheel system, and being able to define  
9   each of a passive and a lifting position, said passive  
10   position being defined as when said stand is the primary  
11   ground support for said tool, and said lifting position  
12   being defined when the stand and tool are lifted off of  
13   the ground and said dolly is the primary ground support  
14   for said tool;

15           said dolly including a first rigid member  
16   affixed to said first and second legs of said stand, a  
17   second rigid member directly affixed only to said third  
18   and fourth legs of said stand, and a selectively actuated  
19   connection means defining a first state and a second



20 state, said dolly being in said passive position when  
21 said selectively actuated connection means is in its  
22 first state and in said lifting position when said  
23 connection means is in its second state;  
24 actuation means for moving said connection  
25 means from its first state to its second state in  
26 response to pressure being downwardly applied to said  
27 first rigid member thereby lifting said stand and tool  
28 off of the ground and enabling transport of same via said  
29 wheel system; and  
30 deactuation means for moving said connection  
31 means from its second state to its first state in  
32 response to another downwardly applied pressure being  
33 applied to said first rigid member thereby causing said  
34 dolly to shift from said lifting state to said passive  
35 state so that said tool can be used.

1 17. The power tool device of claim 16, wherein said  
2 connection means includes latching mechanism having a  
3 male portion mounted to said first rigid member and a  
4 female portion mounted to said second rigid member.

18. A lift dolly adapted to lift and enable  
transport of an object, the lift dolly comprising:  
a first rigid platform adapted to be rigidly  
affixed to one part of the object;  
a second rigid platform adapted to be rigidly  
affixed to another portion of the object;  
latch means for selectively coupling said first  
platform to said second platform;  
lift means for lifting the object off of the  
ground by applying downward pressure to said first  
platform which causes said latch means to couple together  
said first and second platforms; and  
lowering means for lowering the object to the  
ground by applying additional downward pressure to said  
first platform which causes said latch means to decouple  
said first and second platforms.

19. The dolly of claim 1, wherein each of said  
wheel systems includes a pair of castor wheels.

1           20. A latch mechanism for selectively coupling  
2 first and second rigid members, the latch mechanism  
3 comprising:

4           said first rigid member including a male member  
5 pivotally mounted thereto, the male member capable of  
6 being biased in first and second different directions,  
7 and including a first surface having a notch defined  
8 therein and a second surface opposite said first surface;

9           said second rigid member including a female  
10 portion mounted thereto, said female portion having each  
11 of a crossbar member for engagement with said notch, and  
12 a cam surface;

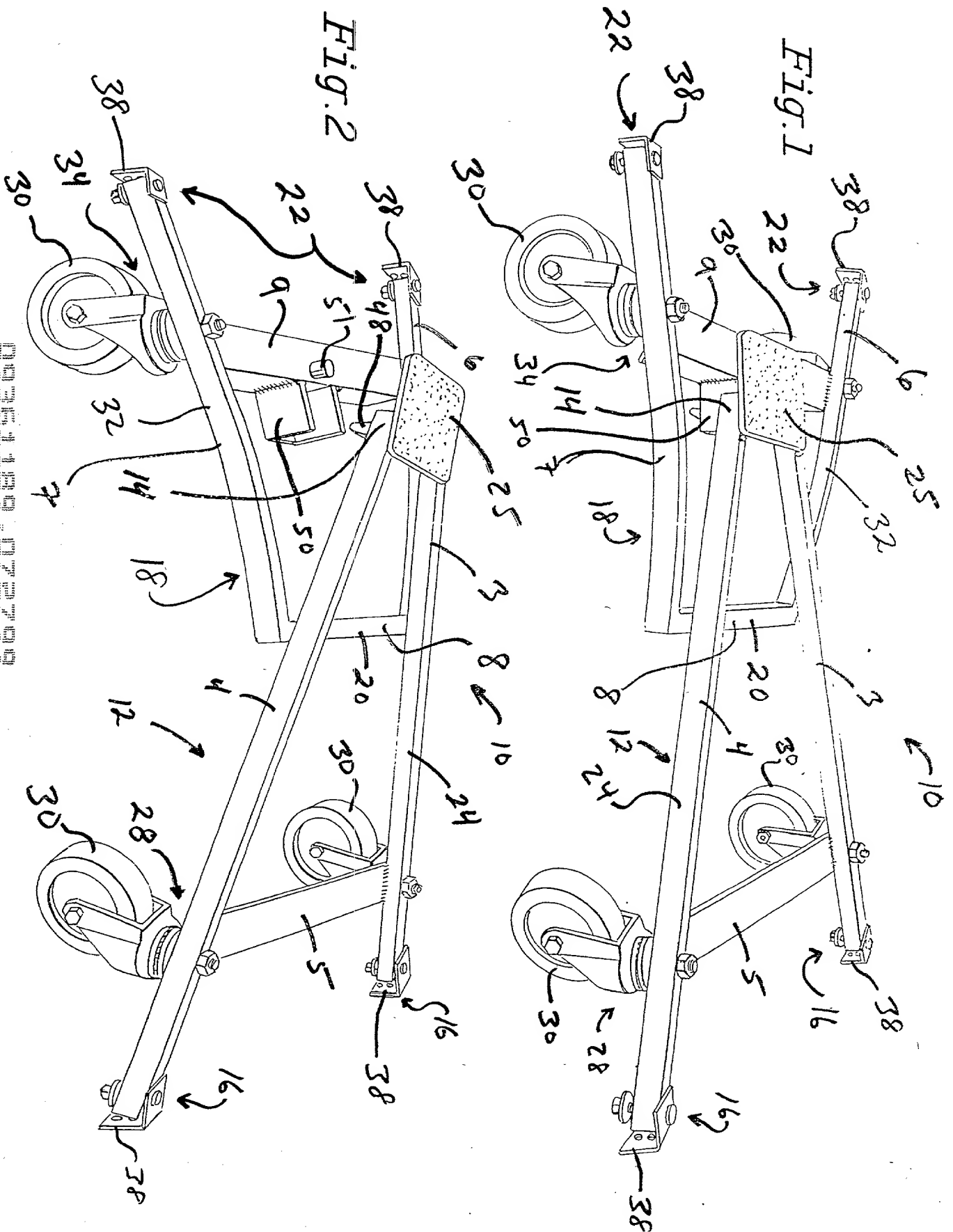
13           actuation means for securing the first and  
14 second rigid members to one another via the latch  
15 mechanism by directing said male member through an  
16 aperture defined in said female portion when said male  
17 member is biased in said first direction toward said  
18 crossbar, so that said crossbar comes to rest within said  
19 notch thereby securing said first and second rigid  
20 members together; and

21           deactuation means for decoupling said first and  
22 second rigid members by directing said male member

23 further through said aperture so as to cause said male  
24 member to become biased in said second direction and  
25 thereafter directing said male member rearwardly out of  
26 and away from said aperture so that said second surface  
27 of said male member contacts said cam surface thereby  
28 causing said male member to again become biased in said  
29 first direction toward said crossbar so that said notch  
30 will become engaged with said crossbar when said male  
31 member is again directed through said aperture in said  
32 female portion.

# ABSTRACT

A lift dolly is provided for lifting and transporting stand-mounted power tools and the like, with little effort. The dolly includes a pair of platforms  
5 and a wheel system having at least three castors extending downwardly from the platforms. The dolly is designed such that one step onto a latching or locking mechanism by the operator causes the wheel system to be forced downward relative to the stand thereby slightly  
10 lifting the power tool and stand off of the ground and enabling transport of same via the castors. Another step on the locking or latching mechanism disengages the wheel system and permits gravity to return the stand and tool firmly to the ground for use.



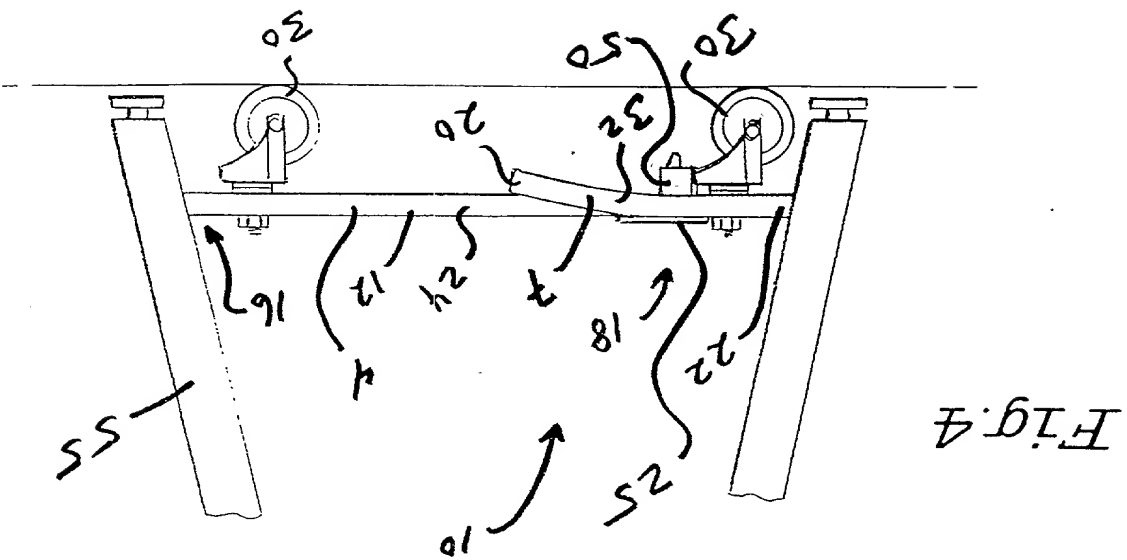
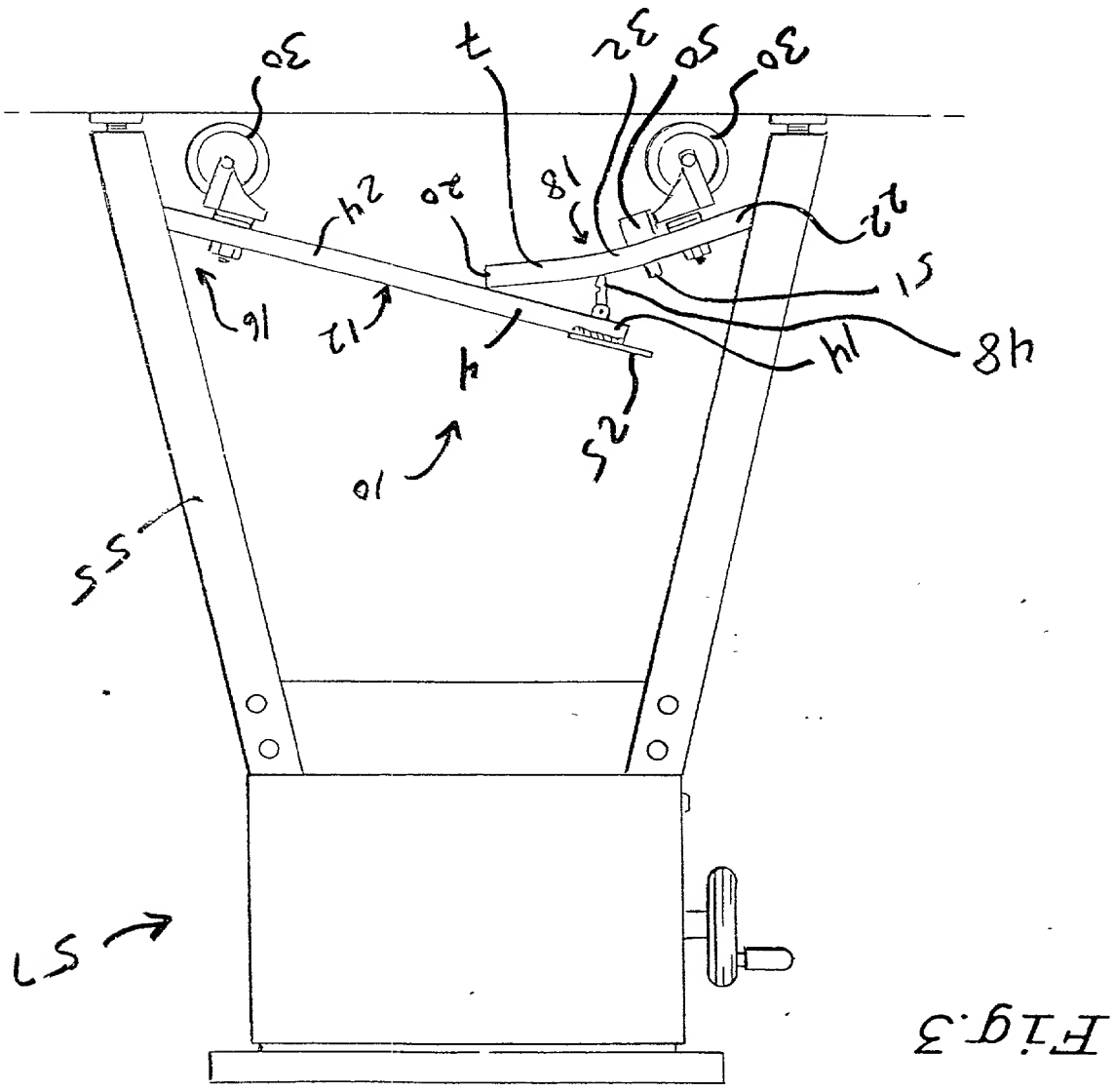


Fig.3

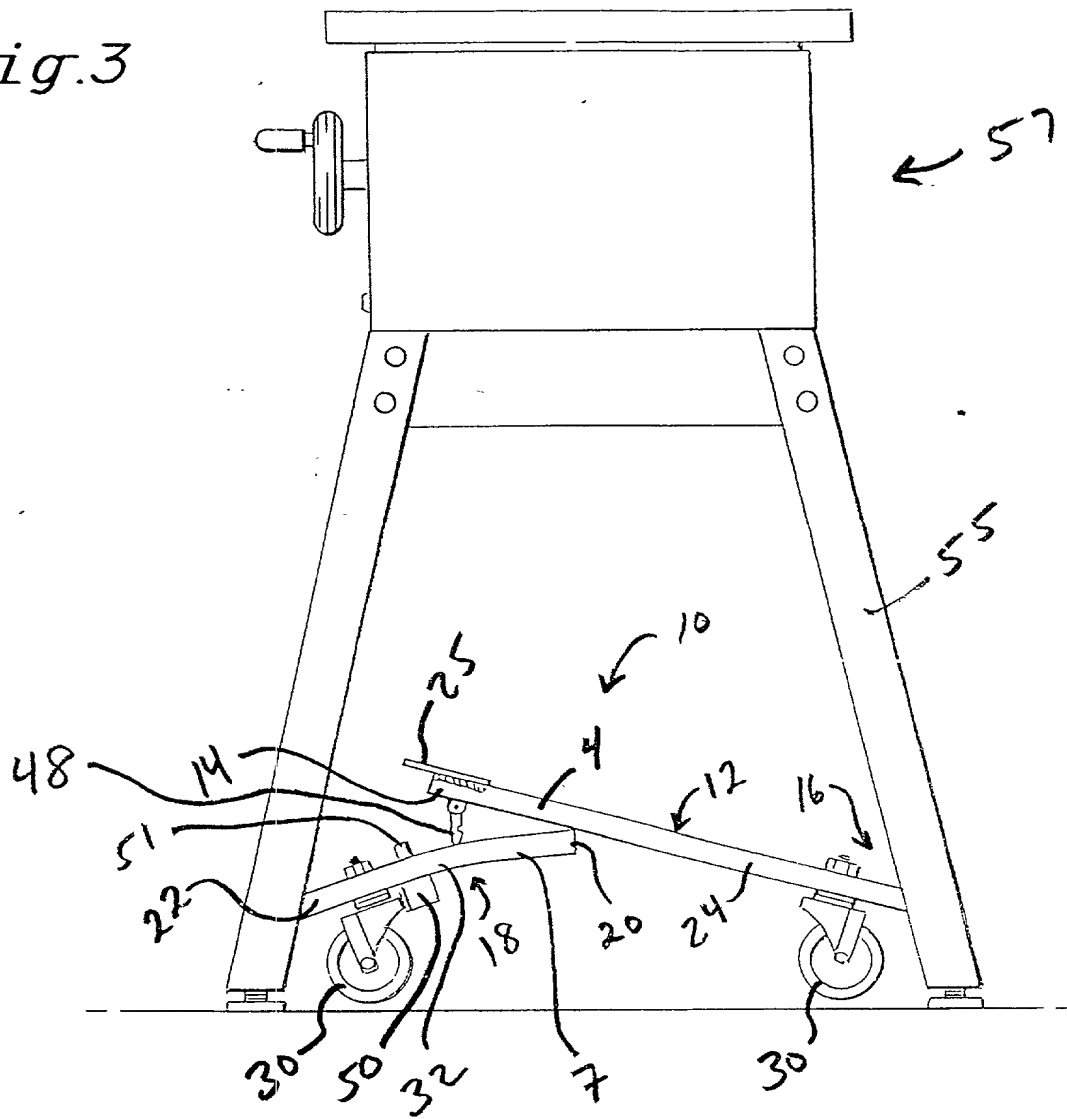


Fig.4

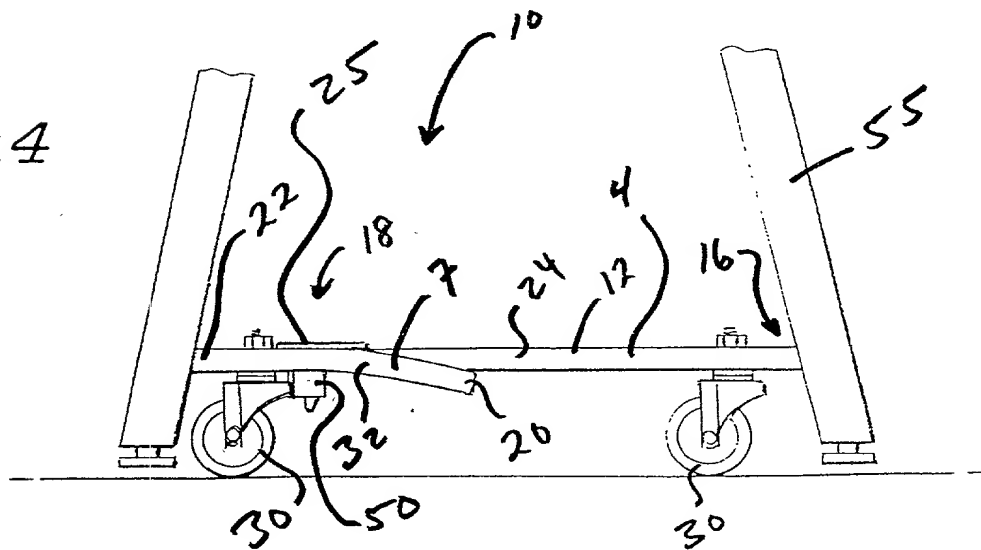




Fig.5

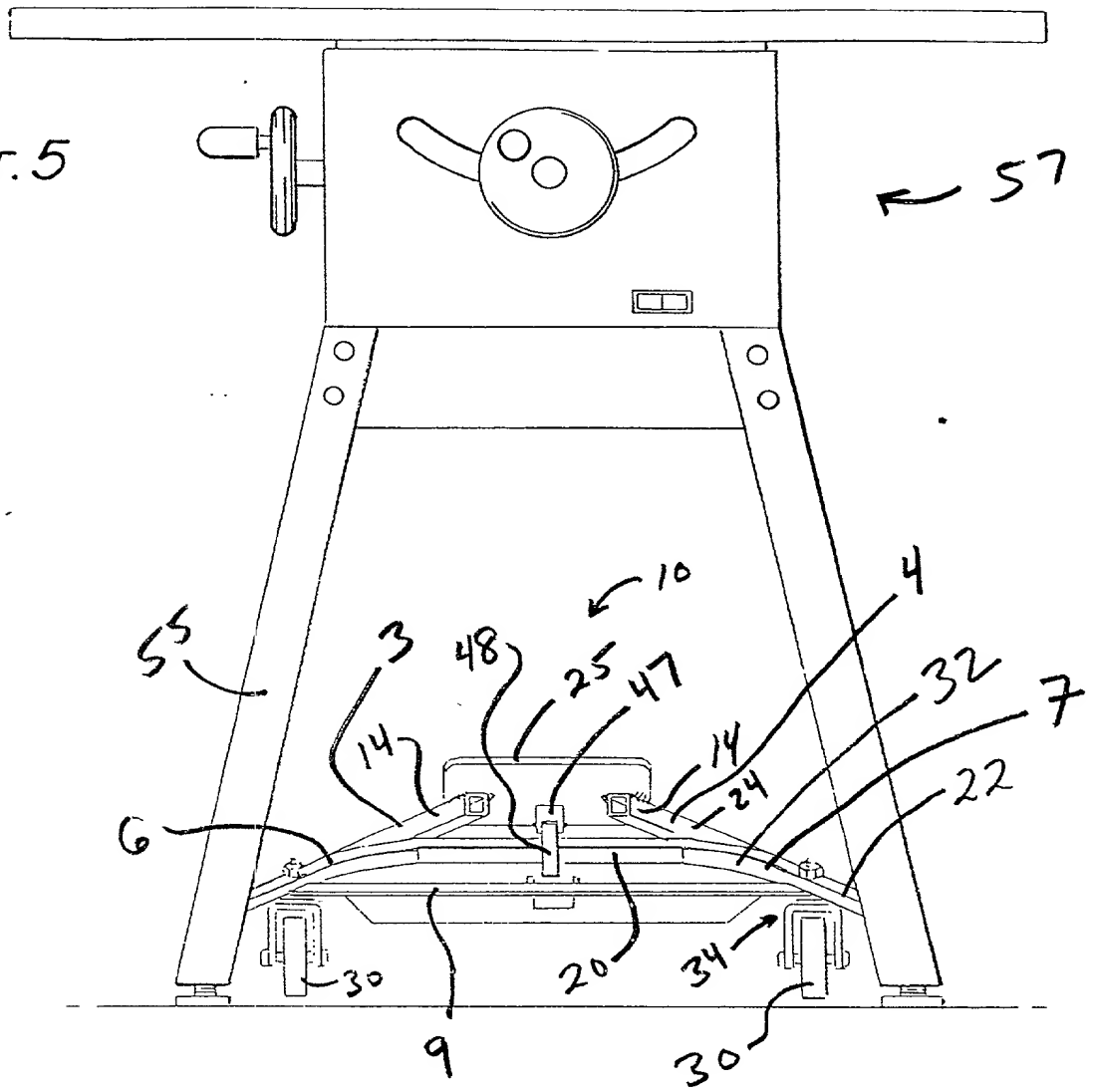
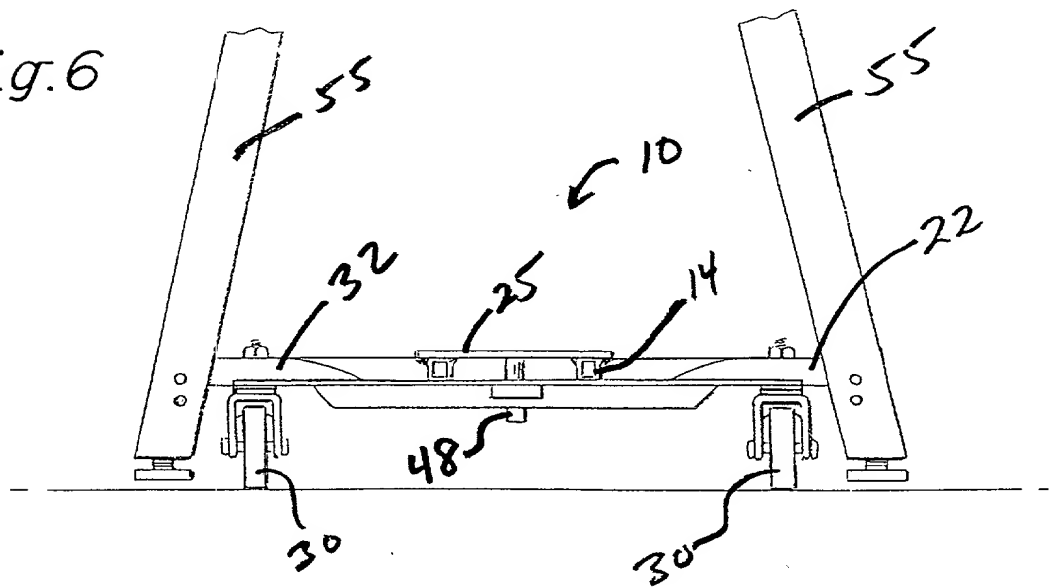
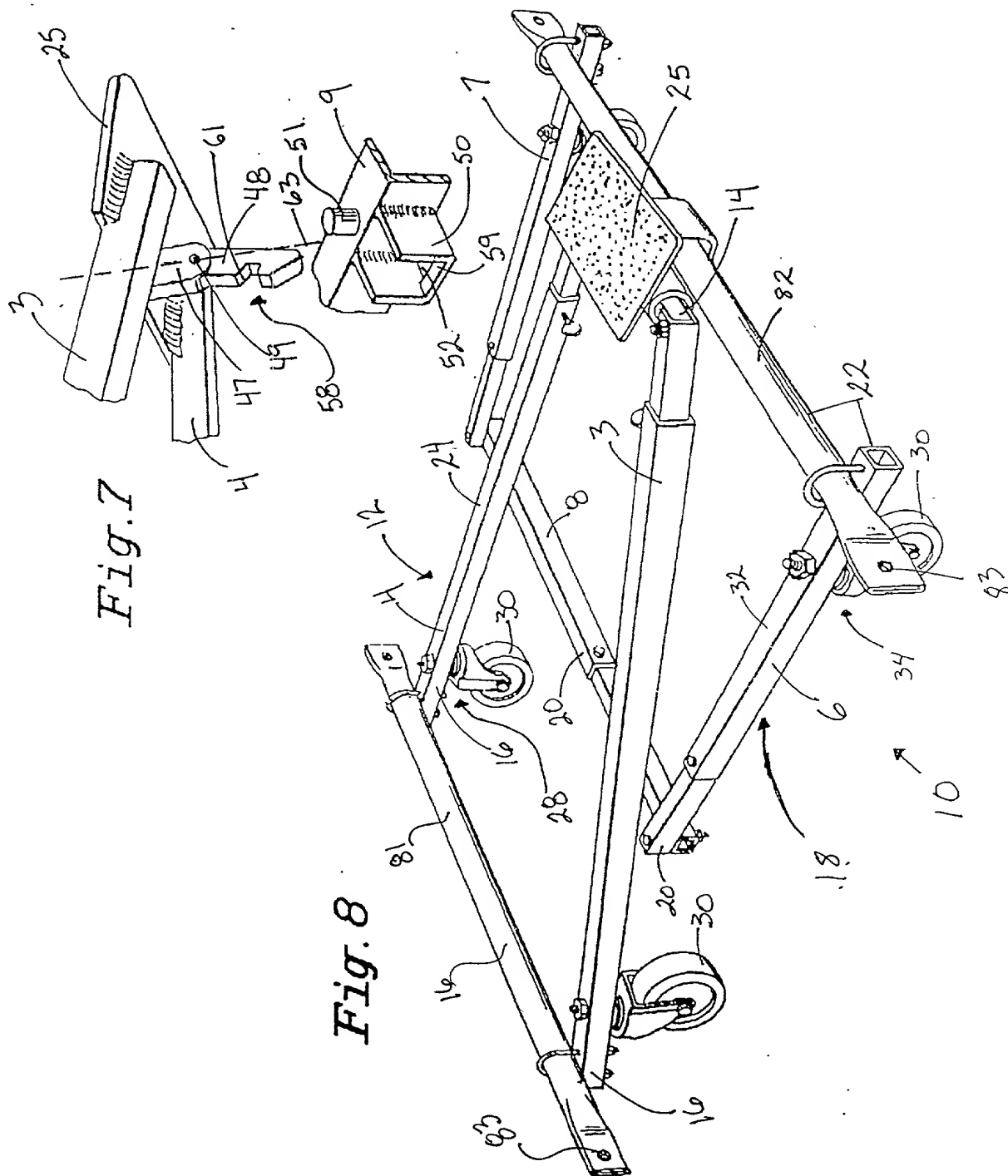


Fig.6







## DECLARATION FOR PATENT APPLICATION

Docket Number (Optional)

2149.737

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled LIFT DOLLY FOR USE IN CONJUNCTION WITH STAND-MOUNTED, the specification of which

POWER TOOLS AND THE LIKE

is attached hereto unless the following box is checked:

☐ was filed on \_\_\_\_\_ as United States Application Number or PCT International Application Number \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Claimed

(Number)	(Country)	(Day/Month/Year Filed)	<input type="checkbox"/> Yes <input type="checkbox"/> No
(Number)	(Country)	(Day/Month/Year Filed)	<input type="checkbox"/> Yes <input type="checkbox"/> No
(Number)	(Country)	(Day/Month/Year Filed)	<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Number)	(Filing Date)	(Status - patented, pending, abandoned)
(Application Number)	(Filing Date)	(Status - patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Geoffrey R. Myers, Reg. #24,897; Thomas P. Liniak, Reg. #33,415; Joseph W. Berenato, III, Reg. #30,546; Joseph A. Rhoads, Reg. #37,515; Elaine Papavasiliou, Reg. No. 40,116

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor (given name, family name) Charles L. English, Jr.

Inventor's signature Charles L. English, Jr. Date 6-16-97

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Second Inventor's signature Douglas R. Stahl Date 6-16-97

Residence 1555 Delaney Drive, Apt. 915, Citizenship U.S.A.

Post Office Address Same Tallahassee, FL 32308

☒ Additional inventors are being named on a separate sheet attached hereto.

# DECLARATION FOR PATENT APPLICATION

PTO/SB/01 (11-90)

Docket Number (Optional)

2149.737

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled LIFT DOLLY FOR USE IN CONJUNCTION WITH STAND-MOUNTED the specification of which

POWER TOOLS AND THE LIKE

is attached hereto unless the following box is checked:

☐ was filed on \_\_\_\_\_ as United States Application Number or PCT International Application Number \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

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Prior Foreign Application(s)

Priority Claimed

(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>

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_____	_____	_____

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_____	_____	_____

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Second Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence \_\_\_\_\_ Citizenship \_\_\_\_\_

Post Office Address \_\_\_\_\_

☒ Additional inventors are being named on a separate sheet attached hereto.